

WEST Search History

DATE: Thursday, March 06, 2003

Set Name Query

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result set

DB=USPT; PLUR=YES; OP=ADJ

L8	l5 and L7	1	L8
L7	(\$25phosphoryl choline) or (\$25phosphorylcholine)	827	L7
L6	\$25phosphorylcholine	671	L6
L5	l3 and L4	81	L5
L4	lens or intraocular	172757	L4
L3	l1 same L2	319	L3
L2	(crosslink?\$4) or (cross link?\$4)	140989	L2
L1	(bisphenol A dimethacrylate) or (bisphenol A diacrylate)	1592	L1

END OF SEARCH HISTORY

WEST



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L5: Entry 3 of 81

File: USPT

May 21, 2002

DOCUMENT-IDENTIFIER: US 6391983 B1

TITLE: Casting composition of aromatic polyvinyl monomer, polythiol and epoxy strain reducer

Brief Summary Text (2):

The most widely used plastic ophthalmic lens material is polymerised diethylene glycol bis (allyl carbonate). This polymer has proved a satisfactory material for the manufacture of ophthalmic lenses because of a combination of features, including excellent transmission, resistance to discolouration, high strength and high impact resistance. The material has a reasonable abrasion resistance and can be coated to improve that resistance.

Brief Summary Text (36):

The high index bisphenol monomer component in the cross-linkable casting composition when present may be selected from: dimethacrylate and diacrylate esters of bisphenol A; dimethacrylate and diacrylate esters of 4,4'-bishydroxy-ethoxy-bisphenol A and the like.

Brief Summary Text (40):

Suitable materials falling within this definition include materials supplied under the trade names U-4H, U-4HA and U-6HA by Shin Nakamura, NF-201 and NF-202 by Mitsubishi Rayon. U-6HA is preferred. These monomers may be included to improve physical toughness without causing the lens material to become too brittle. Impact resistance is improved without adversely affecting abrasion resistance.

Detailed Description Text (11):

Apparatus used to assess the abrasion resistance of lens materials. It involves the use of an abrasive wheel rubbed across a lens surface. Degree of abrasion is assessed according to the level of haze induced by wear.

Detailed Description Text (13):

Measure of the deflection of a lens material when subjected to a specified force at a fixed temperature.

Detailed Description Text (15):

Measure of the hardness of a lens material. A fixed force is applied to a needle point. The depth of penetration indicates the degree of hardness.

Detailed Description Paragraph Table (2):

TABLE 1 Strain Reducing Agent Formulation Mole of 9G epoxy PTMP (ATM20) Initiator per 100 g DVB (TTMP) (Styrene) U6HA TX29 monomer Properties Ex. (%) (%) (%) (%) (%) Type (mephm) RI Density Taber Barcol Vicat Strain Comments

1	48	42	10	0	0.5	HDGE	0.002	1.591	1.22	12	27	low	Good
2	48	42	10	0	0.5	PO	0.002	1.591	1.22	12	27	low	Good
3	48	42	10	0	0.5	BADGE	0.002	1.591	1.22	12	27	low	Good
4	55	35	10	0	1	HDGE	0.002	1.591	1.18	11	33	v.low	Good
5	55	35	10	0	1	PO	0.002	1.591	1.18	11	33	v.low	Good
6	55	35	10	0	1	BADGE	0.002	1.591	1.18	11	33	v.low	Good
7	51.5	47	2.5	0	0.5	HDGE	0.002	1.597	1.22	12	25	v.low	Good
8	51.5	47	2.5	0	0.5	PO	0.002	1.597	1.22	12	25	v.low	Good
9	51.5	47	2.5	0	0.5	BADGE	0.002	1.597	1.22	12	25	v.low	Good
10	55	35	10	0	1	none	0	1.591	1.18	11	33	v.low	Bad
11	50	40	5	5	1	none	0	1.591	1.2	10	34	medium	Bad
12	48	42	10	0	0.5	none	0	1.591	1.22	12	27	low	Bad
13	48	42	10	0	0.5	HDGE	0.0001	1.591	1.22	12	27	low	Bad
14	48	42	10	0	0.5	HDGE	0.001	1.591	1.22	12	27	low	Medium
15	48	42	10	0	0.5	HDGE	0.005	1.591	1.22	12	25	medium	Good
16	48	42	10	0	0.5	HDGE	0.01						

1.591 1.22 12 23 medium Good HDGE at 0.01% no strain but lens is softer 17 48 42 10 0
0.5 HDGE 0.1 <1.591 1.22 12 0 v.high Good HDGE at 0.1%, no strain but lens is soft 18
60 40 0 0 0.5 hdge 0.002 1.61 1.19 19 27 low Good HDGE no strain 19 70 30 0 0 0.5 HDGE
0.002 1.61 1.16 25 38 low Good HDGE no strain 20 70 30 0 0 0.5 HDGE 0.002 1.60 1.14 22
20 low Good HDGE no (TTMP) strain 21 50 30 20 0 0.5 HDGE 0.002 1.59 1.18 13 18 low Good
HDGE no strain 22 50 30 20 0 0.5 HDGE 0.002 1.60 1.17 27 34 low Good HDGE no (ATM20)
strain 23 50 30 20 0 0.5 HDGE 0.002 1.61 1.16 20 28 low Good HDGE no (Styrene) strain
24 66 34 20 0 0.5 HDGE 0.002 1.61 1.17 20 45 low Good HDGE no (Styrene) strain 25 66 34
0 0 0.5 HDGE 0.002 1.61 1.17 20 38 low Good HDGE no (TTMP) strain 26 60 30 10 0 0.5
HDGE 0.002 1.60 1.17 14 42 low Good HDGE no strain 27 50 40 10 0 0.5 HDGE 0.002 1.59
1.21 9 31 low Good HDGE no strain 28 40 50 10 0 0.5 HDGE 0.002 1.59 1.25 16 17 low Good
HDGE no strain 29 50 40 5 5 0.5 HDGE 0.002 1.59 1.21 9 35 low Good HDGE no strain
Taber: 100 cycles CR-39 = 1- Cure Modifier: moles of epoxy groups per 100 grams of
monomer

CLAIMS:

16. A cross-linkable polymeric casting composition according to claim 11, wherein the
polymerisable comonomer is a high index bisphenol monomer selected from the group
consisting of dimethacrylate and diacrylate esters of bisphenol A, dimethacrylate and
diacrylate esters of 4,4'-bishydroxy-ethoxy-bisphenol A.

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L5: Entry 4 of 81

File: USPT

Nov 6, 2001

DOCUMENT-IDENTIFIER: US 6313251 B1

TITLE: High index/high abbe number composition

Brief Summary Text (2):

The most widely used plastic ophthalmic lens material is polymerised diethylene glycol bis (allyl carbonate). This polymer has proved a satisfactory material for the manufacture of ophthalmic lenses because of a combination of features, including excellent transmission, resistance to discolouration, high strength and high impact resistance. The material has a reasonable abrasion resistance and can be coated to improve that resistance.

Brief Summary Text (19):

By the term "Abbe number", as used herein, we mean the number expressing the extent to which the shorter and longer wavelengths of light are separated by refraction through a lens, that is the amount the lens disperses the various colours. The greater the number, the smaller the dispersion. The Abbe number may be calculated utilising the following formula: ##EQU1##

Brief Summary Text (95):

The high index bisphenol monomer component in the cross-linkable casting composition when present may be selected from: dimethacrylate and diacrylate esters of bisphenol A; dimethacrylate and diacrylate esters of 4,4'-bishydroxy-ethoxy-bisphenol A and the like.

Detailed Description Text (4):

The casting material was used to fill the space between a pair of glass moulds separated by a plastic gasket at their periphery and held together by a clip. Cure time was 8 hours with heating at a temperature of 40 to 120.degree. C. A satisfactory lens having a high Abbe number of 42 and high refractive index was formed.

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L5: Entry 6 of 81

File: USPT

Jul 3, 2001

DOCUMENT-IDENTIFIER: US 6255360 B1

TITLE: Process for the manufacture of moldings

Brief Summary Text (54):

A further group of suitable crosslinkers which may be used in the process of the invention are low molecular weight di- or polyvinyl crosslinking agents such as allyl (meth)acrylate, a C.sub.2 -C.sub.8 -alkylene diacrylate or dimethacrylate, divinyl ether, divinyl sulfone, di- and trivinylbenzene, trimethylolpropane triacrylate or trimethacrylate, pentaerythritol tetraacrylate or tetramethacrylate, bisphenol A diacrylate or dimethacrylate, methylene bisacrylamide or -bismethacrylamide, ethylene bisacrylamide or ethylene bismethacrylamide, triallyl phthalate, diallyl phthalate, or a compound of the formula

Brief Summary Text (124):

A further embodiment of the invention relates to the use of the non-porous or porous polymers obtainable by the processes of the invention for the manufacture of moldings, in particular biomedical moldings in both ophthalmic and non-ophthalmic applications. Suitable moldings are, for example, biomedical devices, e.g. ophthalmic devices such as contact lenses, intraocular lenses or artificial cornea comprising a polymer of the invention. Preferred moldings of the invention are those obtainable by the above outlined process for the preparation of porous polymers.

Brief Summary Text (129):

The polymers obtainable according to the processes of the invention, whether non-porous or preferably porous, are capable of interacting with human or animal tissue cells and are thus particularly useful as materials for the attachment and growth of human or animal cells in vivo or in vitro, medical implants (such as implantable semipermeable membrane materials, tissue implants in cosmetic surgery, implants containing hormone secreting cells such as pancreatic islet cells, breast implants, artificial joints, and the like), in artificial organs, tissue culture apparatus (such as bottles, trays, dishes and the like), in biological reactors (such as those used in the production of valuable proteins and other components by cell culture), as material for the fabrication of medical devices or as coating for biomedical or biomaterial devices or applications, such as coatings on vascular grafts, catheters, artificial pancreas and the like, or as material for ophthalmic devices, such as contact lenses, intraocular lenses or artificial cornea, or ocular prostheses, such as corneal implants.

Detailed Description Text (18):

The donor and receiving chamber are connected by a lens holder which is especially designed for sealing a lens thereto, so that the donor solution does not pass around the lens (i.e., proteins may only pass through the lens). Proteins are diffusing through the lens into the receiving chamber on a concentration gradient. Small samples were taken every 20 minutes from the circulating system connected to the receiving chamber and injected in the size exclusion column. The increase of the concentration of the proteins with time gives the MPPT diffusion coefficient D.sub.mppt by applying the following formula:

Detailed Description Text (21):

n' =rate of proteins transport [mol/min]; A=area of lens exposed [mm.sup.2];

Detailed Description Text (22):

A_c =concentration difference [mol/L]; d=thickness of the lens [mm];

Detailed Description Text (23):

The following Table shows diffusion coefficients obtained by this method for a lens

" obtained according to Example 1 and for different commercial membranes. The pore size varies from 15 to 100 nm. The diffusion coefficient of immunoglobulin and serum albumin in the cornea is 0.00042 and 0.00014 mm²/min. taken from D. M. Maurice, P. G. Watson, Exp. Eye Res. (1965), 355-363, M. Allansmith, A. de Ramus, D. Maurice, Assoc. for Res. in Vis. and Ophthal., Inc. (1979) 18, 947-955.

Detailed Description Text (30):

The oxygen permeability of the material according to Example 1 is determined by the coulometric method. The lenticules are clamped in a holder and the upper side of the lenticule is covered with a 2 cm layer of water. A gas mixture comprising 21% of oxygen and 79% of nitrogen is passed continuously through the water layer with swirling. The oxygen which diffuses through the lenticule is measured using a coulometric detector. The reference values are those measured on commercially available contact lenticules applying this method. Cibasoft.RTM. (CibaVision, HEMA lens) shows a values of approx. 7-10 barrer Excelens.RTM. (CibaVision, PVA lens) 22 barrer. The value obtained for the lenticules of Example 1 is 105 barrer.

Detailed Description Paragraph Table (2):

TABLE Diffusion coefficient in mm.sup.2 /min for different proteins through commercial membranes and through the material of example 1: Nucleo Nucleo Nucleo molecular pore .RTM. pore .RTM. pore .RTM. Lens of Proteins weight 100 nm 50 nm 15 nm Example 1 thyro globulin 670000 2.9E-5 1.4E-5 2.6E-6 8.8E-5 gamma 158000 7.9E-5 4.8E-5 3.1E-6 8.5E-5 globulin ovalbumin 44000 1.3E-4 9.1E-5 6.1E-6 1.5E-4 myoglobin 17000 1.7E-4 1.4E-4 9.0E-6 1.2E-4 vitamin B-12 1350 4.3E-4 3.4E-4 2.5E-5 2.6E-4

CLAIMS:

20. A molding according to claim 19 is an implantable intraocular lens or artificial cornea.

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L5: Entry 11 of 81

File: USPT

Nov 2, 1999

DOCUMENT-IDENTIFIER: US 5977276 A

TITLE: High index/high Abbe number composition

Brief Summary Text (2):

The most widely used plastic ophthalmic lens material is polymerised diethylene glycol bis (allyl carbonate). This polymer has proved a satisfactory material for the manufacture of ophthalmic lenses because of a combination of features, including excellent transmission, resistance to discolouration, high strength and high impact resistance. The material has a reasonable abrasion resistance and can be coated to improve that resistance.

Brief Summary Text (19):

By the term "Abbe number", as used herein, we mean the number expressing the extent to which the shorter and longer wavelengths of light are separated by refraction through a lens, that is the amount the lens disperses the various colours. The greater the number, the smaller the dispersion. The Abbe number may be calculated utilising the following formula: ##EQU1## where

Brief Summary Text (62):

The high index bisphenol monomer component in the cross-linkable casting composition when present may be selected from: dimethacrylate and diacrylate esters of bisphenol A; dimethacrylate and diacrylate esters of 4,4'-bis hydroxy-ethoxy-bisphenol A and the like.

Detailed Description Text (5):

The casting material was used to fill the space between a pair of glass moulds separated by a plastic gasket at their periphery and held together by a clip. Cure time was 8 hours with heating at a temperature of 40 to 120.degree. C. A satisfactory lens having a high Abbe number of 42 and high refractive index was formed.

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L5: Entry 32 of 81

File: USPT

Mar 26, 1996

DOCUMENT-IDENTIFIER: US 5502139 A

TITLE: Cross-linkable polymeric composition

Brief Summary Text (1):

The present invention relates to the manufacture of plastic optical articles such as video discs and ophthalmic lenses. The most widely used plastic ophthalmic lens material is polymerised diethylene glycol bis (allyl carbonate). This polymer has proved a satisfactory material for the manufacture of ophthalmic lenses because of a combination of features, including excellent transmission, resistance to discolouration, high strength and high impact resistance. The material has a reasonable abrasion resistance and can be coated to improve that resistance.

Brief Summary Text (26):

The high index bisphenol monomer component in the cross-linkable casting composition may be selected from: dimethacrylate and diacrylate esters of bisphenol A; dimethacrylate and diacrylate esters of 4,4'-bishydroxyethoxy-bisphenol A and the like.

Brief Summary Text (29):

As stated above, the cross-linkable polymeric casting composition may include a urethane monomer having 2 to 6 terminal acrylic and/or methacrylic groups. Suitable materials falling within this definition include materials supplied under the trade names U-4H, U-4HA and U-6HA by Shin Nakamura, NF-201 and NF-202 by Mitsubishi Rayon. These monomers are included to improve physical toughness without causing the lens material to become too brittle. Impact resistance is improved without adversely affecting abrasion resistance.

Brief Summary Text (55):

One source we have found satisfactory is a 10 inch, 300 watt/inch mercury lamp. The mould assembly is then heated to 100.degree. C. for one hour or the lens may be removed from the assembly and heated in air for about one hour at 100.degree. C. This means that fully cured lenses can be manufactured, if desired, in about one hour. Heat curing can also be used without any use of U.V. radiation.

Brief Summary Text (113):

In a further aspect of the present invention there is provided a polymeric article formed from a cross linkable casting composition as described above. The polymeric article may be an optical article. The optical article may provide characteristics equal to or greater than those achievable with articles made from diethylene glycol bis(allyl carbonate) but with a considerably reduced cure time and substantially increased throughput. The optical article may be further characterised by having an increased refractive index without degrading other important lens properties such as density, abrasion, impact, colour, and rigidity (hardness and heat resistance).

Detailed Description Text (9):

Apparatus used to assess the abrasion resistance of lens materials. It involves the use of an abrasive wheel rubbed across a lens surface. Degree of abrasion is assessed according to the level of haze induced by wear.

Detailed Description Text (11):

Measure of the hardness of a lens material. A fixed force is applied to a needle point. The depth of penetration indicates the degree of hardness.

CLAIMS:

1. A cross-linkable polymeric casting composition suitable for use in the formation of

a transparent optical article having a high refractive index in the range of 1.55 to 1.60 comprising:

approximately 5% to 30% by weight based on the total weight of the casting composition of a fluorene diacrylate or dimethacrylate monomer selected from monomers of the general formula ##STR14## wherein R.sub.1 =H or alkyl,

R.sub.2 =H or alkyl,

X=H or OH, and

m and n are integers provided that the sum of m and n is from 0 to 4; approximately

5% to 60% by weight of a polyoxyalkylene glycol diacrylate or dimethacrylate; and

at least one comonomer selected from the group consisting of approximately 2.5% to 25% by weight of a urethane monomer having 2 to 6 terminal acrylic and/or methacrylic groups; approximately 5 to 45% by weight of a polyfunctional unsaturated cross-linking agent selected from the group consisting of tri- and tetra-functional vinyls, and acrylic and methacrylic monomers; approximately 10 to 60% by weight of a bisphenol monomer selected from the group consisting of dimethacrylate and diacrylate esters of bisphenol A, dimethacrylate and diacrylate esters of 4,4'-bishydroxy-ethoxy-bisphenol A and mixtures thereof; and approximately 5 to 40% by weight of a thiodiacrylate or thiodimethacrylate; or mixtures thereof.

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 81 of 81 returned.**☐ 1. Document ID: US 6503958 B2

L5: Entry 1 of 81

File: USPT

Jan 7, 2003

US-PAT-NO: 6503958

DOCUMENT-IDENTIFIER: US 6503958 B2

TITLE: Biomaterials

DATE-ISSUED: January 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes; Timothy Charles	Ferntree Gully			AU
Meijs; Gordon Francis	Murrumbeena			AU
Chaouk; Hassan	Atlanta	GA		
Steele; John Gerard	North Rocks			AU
Johnson; Graham	Peakhurst			AU

US-CL-CURRENT: 521/64; 521/145

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw Desc	Image										

☐ 2. Document ID: US 6424786 B1

L5: Entry 2 of 81

File: USPT

Jul 23, 2002

US-PAT-NO: 6424786

DOCUMENT-IDENTIFIER: US 6424786 B1

TITLE: Illumination assembly

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beeson; Karl W.	Princeton	NJ		
Zimmerman; Scott M.	Basking Ridge	NJ		
Diaz; Jose C.	Lodi	NJ		
Maxfield; Macrae	Teaneck	NJ		
Foley; Michael	Pittsford	NY		

US-CL-CURRENT: 385/146; 385/147, 385/43, 385/51

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☒ 3. Document ID: US 6391983 B1

L5: Entry 3 of 81

File: USPT

May 21, 2002

US-PAT-NO: 6391983

DOCUMENT-IDENTIFIER: US 6391983 B1

TITLE: Casting composition of aromatic polyvinyl monomer, polythiol and epoxy strain reducer

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bateman; Ian Roger	Happy Valley			AU
Toh; Huan Kiak	Fullarton			AU
Diggins; David Robert	Flagstaff Hill			AU
Kloubek; Helena	Morphett Vale			AU

US-CL-CURRENT: 525/529; 252/183.11, 525/531, 525/532, 526/214, 526/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☒ 4. Document ID: US 6313251 B1

L5: Entry 4 of 81

File: USPT

Nov 6, 2001

US-PAT-NO: 6313251

DOCUMENT-IDENTIFIER: US 6313251 B1

TITLE: High index/high abbe number composition

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toh; Huan Kiak	Fullarton			AU
Bateman; Ian Roger	Happy Valley			AU
Diggins; David Robert	Flagstaff Hill			AU
Cieslinski; Bohdan Grzegorz	Noarlunga Downs			AU

US-CL-CURRENT: 526/308; 526/286, 526/312, 526/321, 526/323.2, 528/375, 528/376

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
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☐ 5. Document ID: US 6271281 B1

L5: Entry 5 of 81

File: USPT

Aug 7, 2001

US-PAT-NO: 6271281
DOCUMENT-IDENTIFIER: US 6271281 B1

TITLE: Homopolymers containing stable elasticity inducing crosslinkers and ocular implants made therefrom

DATE-ISSUED: August 7, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liao; Xiugao	Irvine	CA		
Gulati; Vijay	Lake Forest	CA		

US-CL-CURRENT: 523/106; 351/160H, 623/5.16, 623/6.56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ 6. Document ID: US 6255360 B1

L5: Entry 6 of 81

File: USPT

Jul 3, 2001

US-PAT-NO: 6255360
DOCUMENT-IDENTIFIER: US 6255360 B1

TITLE: Process for the manufacture of moldings

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Domschke; Angelika Maria	Duluth	GA		
Francis; Vimala Mary	Suwanee	GA		

US-CL-CURRENT: 521/64; 435/395, 521/145, 521/149, 526/246, 526/247, 526/320, 526/72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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☐ 7. Document ID: US 6172140 B1

L5: Entry 7 of 81

File: USPT

Jan 9, 2001

US-PAT-NO: 6172140
DOCUMENT-IDENTIFIER: US 6172140 B1

TITLE: Acrylic thio monomers

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toh; Huan Kiak	Fullarton			AU
Chen; Fang	Hallett Cove			AU
Kok; Chong Meng	Flagstaff Hill			AU

US-CL-CURRENT: 526/289; 523/106, 526/286, 558/251, 560/222

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC

☐ 8. Document ID: US 6166158 A

L5: Entry 8 of 81

File: USPT

Dec 26, 2000

US-PAT-NO: 6166158

DOCUMENT-IDENTIFIER: US 6166158 A

TITLE: High index/high abbe number composition

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toh; Huan Kiak	Fullarton			AU
Bateman; Ian Roger	Happy Valley			AU
Diggins; David Robert	Flagstaff Hill			AU
Cieslinski; Bohdan Grzegorz	Noarlunga Downs			AU

US-CL-CURRENT: 526/308; 526/286, 526/321, 526/323.2, 528/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RMC

☐ 9. Document ID: US 6153663 A

L5: Entry 9 of 81

File: USPT

Nov 28, 2000

US-PAT-NO: 6153663

DOCUMENT-IDENTIFIER: US 6153663 A

TITLE: UV curable high index vinyl esters

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Fang	Hallett Cove			AU
Toh; Huan Kiak	Fullarton			AU

US-CL-CURRENT: 522/181; 428/413, 428/419, 428/422.8, 428/500, 522/180, 522/182,
526/282, 526/286, 526/292.3, 526/306, 526/308, 526/323.1, 526/323.2, 526/328,
526/328.5, 528/306, 528/307, 528/308

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☐ 10. Document ID: US 6129439 A

L5: Entry 10 of 81

File: USPT

Oct 10, 2000

US-PAT-NO: 6129439

DOCUMENT-IDENTIFIER: US 6129439 A

TITLE: Illumination system employing an array of multi-faceted microprisms

DATE-ISSUED: October 10, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hou; Janpu	Bridgewater	NJ		
Zimmerman; Scott M.	Basking Ridge	NJ		
Beeson; Karl Wayne	Princeton	NJ		

US-CL-CURRENT: 362/31; 362/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☒ 11. Document ID: US 5977276 A

L5: Entry 11 of 81

File: USPT

Nov 2, 1999

US-PAT-NO: 5977276

DOCUMENT-IDENTIFIER: US 5977276 A

TITLE: High index/high Abbe number composition

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toh; Huan Kiak	Fullarton			AU
Bateman; Ian Roger	Happy Valley			AU
Diggins; David Robert	Flagstaff Hill			AU
Cieslinski; Bohdan Grzegorz	Noarlunga Downs			AU

US-CL-CURRENT: 526/308; 526/282, 526/286, 526/292.3, 526/323.2, 526/328, 526/328.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 12. Document ID: US 5959761 A

L5: Entry 12 of 81

File: USPT

Sep 28, 1999

US-PAT-NO: 5959761

DOCUMENT-IDENTIFIER: US 5959761 A

TITLE: Incorporating photochromic molecules in light transmissible articles

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perrott; Colin Maurice	Mount Barker			AU
Pidgeon; Kenneth John	O'Halloran Hill			AU

US-CL-CURRENT: 359/244; 351/159, 351/163

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 13. Document ID: US 5910519 A

L5: Entry 13 of 81

File: USPT

Jun 8, 1999

US-PAT-NO: 5910519

DOCUMENT-IDENTIFIER: US 5910519 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 523/106; 264/1.38, 264/2.6, 524/377, 524/378, 524/916, 525/415, 526/238.23, 526/323.2, 536/18.3, 536/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 14. Document ID: US 5882556 A

L5: Entry 14 of 81

File: USPT

Mar 16, 1999

US-PAT-NO: 5882556

DOCUMENT-IDENTIFIER: US 5882556 A

TITLE: Method of preparing photochromic article

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Perrott; Colin Maurice	Mount Barker			AU
Pidgeon; Kenneth John	O'Halloran Hill			AU
Kloubek; Helena	Morphett Vale			AU
Threlfall; Ian Michael	Happy Valley			AU

US-CL-CURRENT: 264/1.38; 264/1.7, 264/2.1, 264/2.6, 264/496

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 15. Document ID: US 5879774 A

L5: Entry 15 of 81

File: USPT

Mar 9, 1999

US-PAT-NO: 5879774

DOCUMENT-IDENTIFIER: US 5879774 A

TITLE: Multilayer laminate elements having an adhesive layer

DATE-ISSUED: March 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taylor; Jeffrey F.	Fairport	NY		
Pulsifer; Douglas H.	Normal	IL		

US-CL-CURRENT: 428/64.1; 369/283, 369/288, 428/474.7, 428/520, 428/64.4, 428/65.2, 428/913, 430/270.11, 430/495.1, 430/945

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 16. Document ID: US 5876743 A

L5: Entry 16 of 81

File: USPT

Mar 2, 1999

US-PAT-NO: 5876743

DOCUMENT-IDENTIFIER: US 5876743 A

TITLE: Biocompatible adhesion in tissue repair

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ibsen; Robert L.	Santa Maria	CA		
Glace; William R.	Orcutt	CA		

US-CL-CURRENT: 424/426; 523/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 17. Document ID: US 5805264 A

L5: Entry 17 of 81

File: USPT

Sep 8, 1998

US-PAT-NO: 5805264

DOCUMENT-IDENTIFIER: US 5805264 A

TITLE: Process for graft polymerization on surfaces of preformed substates to modify surface properties

DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janssen; Robert A.	Alpharetta	GA		
Ajello; Ellen M.	Decatur	GA		
Auten; Richard D.	Cumming	GA		
Nomura; Glenn S.	Atlanta	GA		
Shank; Thomas E.	Duluth	GA		

US-CL-CURRENT: 351/160R; 351/166, 523/106, 523/108, 525/479, 525/937

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 18. Document ID: US 5739931 A

L5: Entry 18 of 81

File: USPT

Apr 14, 1998

US-PAT-NO: 5739931

DOCUMENT-IDENTIFIER: US 5739931 A

TITLE: Illumination system employing an array of microprisms

DATE-ISSUED: April 14, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott M.	Basking Ridge	NJ		
Beeson; Karl W.	Princeton	NJ		
Hou; Janpu	Bridgewater	NJ		
Schweyen; John C.	Midland Park	NJ		

US-CL-CURRENT: 359/619; 349/57, 349/64, 359/834

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 19. Document ID: US 5736409 A

L5: Entry 19 of 81

File: USPT

Apr 7, 1998

US-PAT-NO: 5736409

DOCUMENT-IDENTIFIER: US 5736409 A

TITLE: Method of testing inert, displaceable diluents used in forming shaped hydrogel articles

DATE-ISSUED: April 7, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 436/147; 264/2.6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 20. Document ID: US 5684059 A

L5: Entry 20 of 81

File: USPT

Nov 4, 1997

US-PAT-NO: 5684059

DOCUMENT-IDENTIFIER: US 5684059 A

TITLE: Fluorine containing soft contact lens hydrogels

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salamone; Joseph C.	Boca Raton	FL	33496	

US-CL-CURRENT: 523/107; 526/245

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 21. Document ID: US 5684058 A

L5: Entry 21 of 81

File: USPT

Nov 4, 1997

US-PAT-NO: 5684058

DOCUMENT-IDENTIFIER: US 5684058 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 523/106; 264/2.6, 524/377, 524/916, 526/323.2, 536/18.3, 536/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 22. Document ID: US 5654350 A

L5: Entry 22 of 81

File: USPT

Aug 5, 1997

US-PAT-NO: 5654350

DOCUMENT-IDENTIFIER: US 5654350 A

TITLE: Contact lenses with hydrophilic crosslinkers

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura	Jacksonville	FL		

US-CL-CURRENT: 523/106; 526/318, 526/328.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 23. Document ID: US 5633100 A

L5: Entry 23 of 81

File: USPT

May 27, 1997

US-PAT-NO: 5633100

DOCUMENT-IDENTIFIER: US 5633100 A

TITLE: Holographic imaging using filters

DATE-ISSUED: May 27, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mickish; Daniel J.	Wilmington	DE		
MacKara; Steven R.	New Castle	DE		
Trout; Torence J.	Yorklyn	DE		

US-CL-CURRENT: 430/1; 359/1, 359/15, 359/3, 359/30, 430/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 24. Document ID: US 5598281 A

L5: Entry 24 of 81

File: USPT

Jan 28, 1997

US-PAT-NO: 5598281

DOCUMENT-IDENTIFIER: US 5598281 A

TITLE: Backlight assembly for improved illumination employing tapered optical elements

DATE-ISSUED: January 28, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott M.	Basking Ridge	NJ		
Beeson; Karl W.	Princeton	NJ		
Ferm; Paul M.	Morristown	NJ		

US-CL-CURRENT: 349/5; 349/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 25. Document ID: US 5594043 A

L5: Entry 25 of 81

File: USPT

Jan 14, 1997

US-PAT-NO: 5594043

DOCUMENT-IDENTIFIER: US 5594043 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: January 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nu nez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 523/106; 264/2.6, 524/370, 524/377, 524/916, 526/323.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 26. Document ID: US 5565539 A

L5: Entry 26 of 81

File: USPT

Oct 15, 1996

US-PAT-NO: 5565539

DOCUMENT-IDENTIFIER: US 5565539 A

TITLE: Contact lenses with hydrophilic crosslinkers

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura	Jacksonville	FL		

US-CL-CURRENT: 526/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 27. Document ID: US 5563183 A

L5: Entry 27 of 81

File: USPT

Oct 8, 1996

US-PAT-NO: 5563183

DOCUMENT-IDENTIFIER: US 5563183 A

TITLE: Contact lenses with hydrophilic crosslinkers

DATE-ISSUED: October 8, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura	Jacksonville	FL		

US-CL-CURRENT: 523/106; 351/160H, 524/559, 524/916, 526/309, 526/323.1, 526/323.2,
526/326, 526/333, 526/334

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 28. Document ID: US 5555109 A

L5: Entry 28 of 81

File: USPT

Sep 10, 1996

US-PAT-NO: 5555109

DOCUMENT-IDENTIFIER: US 5555109 A

TITLE: Illumination system employing an array of microprisms

DATE-ISSUED: September 10, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott M.	Basking Ridge	NJ		
Beeson; Karl W.	Princeton	NJ		
Hou; Janpu	Bridgewater	NJ		
Schweyen; John C.	Midland Park	NJ		

US-CL-CURRENT: 349/57; 349/112, 349/62, 349/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 29. Document ID: US 5543177 A

L5: Entry 29 of 81

File: USPT

Aug 6, 1996

US-PAT-NO: 5543177

DOCUMENT-IDENTIFIER: US 5543177 A

TITLE: Marking materials containing retroreflecting fillers

DATE-ISSUED: August 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morrison; Jan D.	Webster	NY		
Grabowski; Edward F.	Webster	NY		
Dotschkal; Virginia E.	Newark	NY		
Lynch; Anita P.	Webster	NY		
May; Jerome E.	Pittsford	NY		

US-CL-CURRENT: 427/288; 101/491, 347/100, 430/114, 430/124, 523/217, 73/150R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 30. Document ID: US 5521726 A

L5: Entry 30 of 81

File: USPT

May 28, 1996

US-PAT-NO: 5521726

DOCUMENT-IDENTIFIER: US 5521726 A

TITLE: Polarizer with an array of tapered waveguides

DATE-ISSUED: May 28, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott	Basking Ridge	NJ		
Ferm; Paul	Morristown	NJ		
Shacklette; Lawrence	Maplewood	NJ		
McFarland; Michael	Washington	NJ		

US-CL-CURRENT: 349/96; 349/159

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 31. Document ID: US 5521725 A

L5: Entry 31 of 81

File: USPT

May 28, 1996

US-PAT-NO: 5521725

DOCUMENT-IDENTIFIER: US 5521725 A

TITLE: Illumination system employing an array of microprisms

DATE-ISSUED: May 28, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beeson; Karl W.	Princeton	NJ		
Steiner; Ivan B.	Ridgewood	NJ		
Zimmerman; Scott M.	Basking Ridge	NJ		

US-CL-CURRENT: 349/95; 349/61, 362/26, 362/31, 385/901

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☒ 32. Document ID: US 5502139 A

L5: Entry 32 of 81

File: USPT

Mar 26, 1996

US-PAT-NO: 5502139

DOCUMENT-IDENTIFIER: US 5502139 A

TITLE: Cross-linkable polymeric composition

DATE-ISSUED: March 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toh; Huan K.	Fullerton			AU
Kok; Chong M.	Flagstaff Hill			AU

US-CL-CURRENT: 526/284; 522/174, 522/180, 522/181, 522/182, 526/286, 526/289, 526/301, 526/313, 526/323, 526/323.1, 526/323.2, 526/325, 528/373, 528/376

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 33. Document ID: US 5498681 A

L5: Entry 33 of 81

File: USPT

Mar 12, 1996

US-PAT-NO: 5498681

.DOCUMENT-IDENTIFIER: US 5498681 A

TITLE: Material for use in the manufacture of polymeric articles

DATE-ISSUED: March 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Askari; Syed H.	Santa Clara	CA		
Neidlinger; Hermann H.	San Jose	CA		
Gandhi; Khushroo	Sunnyvale	CA		

US-CL-CURRENT: 526/246; 351/160H, 351/160R, 523/106, 524/520, 524/544

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 34. Document ID: US 5498379 A

L5: Entry 34 of 81

File: USPT

Mar 12, 1996

US-PAT-NO: 5498379

DOCUMENT-IDENTIFIER: US 5498379 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: March 12, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 264/2.6; 523/106, 524/310, 524/916, 525/411, 525/415

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 35. Document ID: US 5490960 A

L5: Entry 35 of 81

File: USPT

Feb 13, 1996

US-PAT-NO: 5490960

DOCUMENT-IDENTIFIER: US 5490960 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 264/2.6; 523/106, 524/377, 524/388, 524/916

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 36. Document ID: US 5490959 A

L5: Entry 36 of 81

File: USPT

Feb 13, 1996

US-PAT-NO: 5490959

DOCUMENT-IDENTIFIER: US 5490959 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 264/2.6; 523/106, 523/108, 524/916, 536/18.3, 536/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 37. Document ID: US 5484927 A

L5: Entry 37 of 81

File: USPT

Jan 16, 1996

US-PAT-NO: 5484927

DOCUMENT-IDENTIFIER: US 5484927 A

TITLE: Visible dye photosensitizers derived from tropinone

DATE-ISSUED: January 16, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 546/126

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 38. Document ID: US 5481385 A

L5: Entry 38 of 81

File: USPT

Jan 2, 1996

US-PAT-NO: 5481385

DOCUMENT-IDENTIFIER: US 5481385 A

TITLE: Direct view display device with array of tapered waveguide on viewer side

DATE-ISSUED: January 2, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott M.	Olathe	KS		
Beeson; Karl W.	Princeton	NJ		
McFarland; Michael J.	Washington	NJ		
Yardley; James T.	Morristown	NJ		
Ferm; Paul M.	Morristown	NJ		

US-CL-CURRENT: 349/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 39. Document ID: US 5470662 A

L5: Entry 39 of 81

File: USPT

Nov 28, 1995

US-PAT-NO: 5470662

DOCUMENT-IDENTIFIER: US 5470662 A

TITLE: Recording films with a high refractive index modulation

DATE-ISSUED: November 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Andrew M.	Wilmington	DE		
Beresniewicz; Aleksander	Wilmington	DE		

US-CL-CURRENT: 428/421, 428/442, 428/516, 428/520, 430/1, 430/2, 430/271.1, 430/281.1, 430/290, 430/907, 430/909, 430/916

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 40. Document ID: US 5462700 A

L5: Entry 40 of 81

File: USPT

Oct 31, 1995

US-PAT-NO: 5462700

DOCUMENT-IDENTIFIER: US 5462700 A

TITLE: Process for making an array of tapered photopolymerized waveguides

DATE-ISSUED: October 31, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beeson; Karl W.	Princeton	NJ		
Zimmerman; Scott M.	Basking Ridge	NJ		
Ferm; Paul M.	Morristown	NJ		
McFarland; Michael J.	Washington	NJ		

US-CL-CURRENT: 264/1.27; 264/1.38, 264/2.6, 362/551, 385/146

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 41. Document ID: US 5457140 A

L5: Entry 41 of 81

File: USPT

Oct 10, 1995

US-PAT-NO: 5457140

DOCUMENT-IDENTIFIER: US 5457140 A

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert, displaceable diluents

DATE-ISSUED: October 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nunez; Ivan M.	Jacksonville	FL		
Molock; Frank F.	Orange Park	FL		
Elliott; Laura D.	Jacksonville	FL		
Ford; James D.	Orange Park	FL		

US-CL-CURRENT: 523/106; 264/1.38, 351/160H, 524/367, 524/58, 524/916, 526/200, 526/238.23, 536/18.3, 536/4.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 42. Document ID: US 5428468 A

L5: Entry 42 of 81

File: USPT

Jun 27, 1995

US-PAT-NO: 5428468

DOCUMENT-IDENTIFIER: US 5428468 A

TITLE: Illumination system employing an array of microprisms

DATE-ISSUED: June 27, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zimmerman; Scott M.	Basking Ridge	NJ		
Beeson; Karl W.	Princeton	NJ		
Hou; Janpu	Bridgewater	NJ		
Schweyen; John C.	Midland Park	NJ		

US-CL-CURRENT: 349/62; 362/31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 43. Document ID: US 5413863 A

L5: Entry 43 of 81

File: USPT

May 9, 1995

US-PAT-NO: 5413863

DOCUMENT-IDENTIFIER: US 5413863 A

TITLE: Recording medium with improved adhesion to glass

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weber; Andrew M.	Wilmington	DE		
Beresniewicz; Aleksander	Wilmington	DE		

US-CL-CURRENT: 428/428; 428/429, 428/436, 428/437, 428/441, 428/442, 428/501, 428/520,
430/14, 430/2, 430/281.1, 430/282.1, 430/905, 430/907, 430/909, 430/916, 522/116,
522/121, 525/102, 526/254, 526/255, 526/279

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 44. Document ID: US 5397673 A

L5: Entry 44 of 81

File: USPT

Mar 14, 1995

US-PAT-NO: 5397673

DOCUMENT-IDENTIFIER: US 5397673 A

TITLE: Curable strip-out development processes

DATE-ISSUED: March 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Watson; P. Keith	Rochester	NY		
Morrison; Ian D.	Webster	NY		

US-CL-CURRENT: 430/126; 347/101, 347/102, 347/95, 430/97

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 45. Document ID: US 5396350 A

L5: Entry 45 of 81

File: USPT

Mar 7, 1995

US-PAT-NO: 5396350

DOCUMENT-IDENTIFIER: US 5396350 A

TITLE: Backlighting apparatus employing an array of microprisms

DATE-ISSUED: March 7, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beeson; Karl W.	Princeton	NJ		
Zimmerman; Scott M.	Basking Ridge	NJ		
Ferm; Paul M.	Morristown	NJ		

US-CL-CURRENT: 349/62; 349/65, 349/95, 353/81, 359/251, 362/31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 46. Document ID: US 5332819 A

L5: Entry 46 of 81

File: USPT

Jul 26, 1994

US-PAT-NO: 5332819

DOCUMENT-IDENTIFIER: US 5332819 A

TITLE: Photobleachable initiator systems

DATE-ISSUED: July 26, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 546/94; 546/196, 546/197, 546/198, 546/199, 546/201

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 47. Document ID: US 5256520 A

L5: Entry 47 of 81

File: USPT

Oct 26, 1993

US-PAT-NO: 5256520

DOCUMENT-IDENTIFIER: US 5256520 A

TITLE: Visible photosensitizers for photopolymerizable compositions

DATE-ISSUED: October 26, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 430/281.1; 430/2, 430/919, 430/920, 430/922, 430/923, 430/924, 522/26, 522/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KMC

☐ 48. Document ID: US 5236808 A

L5: Entry 48 of 81

File: USPT

Aug 17, 1993

US-PAT-NO: 5236808

DOCUMENT-IDENTIFIER: US 5236808 A

TITLE: Visible photosensitizers for photopolymerizable compositions

DATE-ISSUED: August 17, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 430/281.1; 430/2, 430/915, 430/920, 430/924, 430/926, 522/14, 522/16, 522/25, 522/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KMC

☐ 49. Document ID: US 5217846 A

L5: Entry 49 of 81

File: USPT

Jun 8, 1993

US-PAT-NO: 5217846

DOCUMENT-IDENTIFIER: US 5217846 A

TITLE: Photobleachable initiator systems

DATE-ISSUED: June 8, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 430/281.1; 430/920, 430/926, 522/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw. Desc	Image								

KMC

☐ 50. Document ID: US 5204467 A

L5: Entry 50 of 81

File: USPT

Apr 20, 1993

US-PAT-NO: 5204467

DOCUMENT-IDENTIFIER: US 5204467 A

TITLE: Visible photosensitizers for photopolymerizable compositions

DATE-ISSUED: April 20, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		

US-CL-CURRENT: 546/94; 546/165, 548/148, 548/149, 548/150, 548/217, 548/218, 548/223,
548/302.1, 548/304.4, 548/418, 548/426, 548/427, 548/490

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RWC

☐ 51. Document ID: US 5194556 A

L5: Entry 51 of 81

File: USPT

Mar 16, 1993

US-PAT-NO: 5194556

DOCUMENT-IDENTIFIER: US 5194556 A

TITLE: Rigid contact lenses with improved oxygen permeability

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mueller; Karl F.	New York	NY		
Seiferling; Bernhard	Goldbach			DE
Bochnik; Michael C.	Yonkers	NY		

US-CL-CURRENT: 528/28; 528/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RWC

☐ 52. Document ID: US 5147758 A

L5: Entry 52 of 81

File: USPT

Sep 15, 1992

US-PAT-NO: 5147758

DOCUMENT-IDENTIFIER: US 5147758 A

TITLE: Red sensitive photopolymerizable compositions

DATE-ISSUED: September 15, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		
Weed; Gregory C.	Towanda	PA		
Laganis; Evan D.	Wilmington	DE		
Lalka; George	Lindenwold	NJ		

US-CL-CURRENT: [430/281.1](#); [430/2](#), [430/914](#), [430/923](#), [522/25](#), [522/26](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 53. Document ID: US 5143818 A

L5: Entry 53 of 81

File: USPT

Sep 1, 1992

US-PAT-NO: 5143818

DOCUMENT-IDENTIFIER: US 5143818 A

TITLE: Borate cointiators for photopolymerizable compositions

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weed; Gregory C.	Towanda	PA		
Monroe; Bruce M.	Wilmington	DE		

US-CL-CURRENT: [430/281.1](#); [430/2](#), [430/325](#), [430/914](#), [430/915](#), [430/919](#), [522/15](#), [522/25](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 54. Document ID: US 5137728 A

L5: Entry 54 of 81

File: USPT

Aug 11, 1992

US-PAT-NO: 5137728

DOCUMENT-IDENTIFIER: US 5137728 A

TITLE: Ophthalmic article

DATE-ISSUED: August 11, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bawa; Rajan	Fairport	NY		

US-CL-CURRENT: [424/427](#); [424/422](#), [424/424](#), [424/428](#), [424/429](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 55. Document ID: US 5135965 A

L5: Entry 55 of 81

File: USPT

Aug 4, 1992

US-PAT-NO: 5135965

DOCUMENT-IDENTIFIER: US 5135965 A

TITLE: Hydrogel-forming polymers used in intraocular lenses

DATE-ISSUED: August 4, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tahan; Menashe	London			GB

US-CL-CURRENT: 523/106; 351/160H, 523/108, 525/54.2, 525/54.21, 525/54.22, 525/54.23,
525/54.3, 525/54.31, 525/54.32, 526/238.2, 526/238.21, 526/238.22, 526/238.23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 56. Document ID: US 5070170 A

L5: Entry 56 of 81

File: USPT

Dec 3, 1991

US-PAT-NO: 5070170

DOCUMENT-IDENTIFIER: US 5070170 A

TITLE: Wettable, rigid gas permeable, substantially non-swellable contact lens
containing block copolymer polysiloxane-polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: December 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robertson; J. Richard	Alpharetta	GA		
Su; Kai C.	Alpharetta	GA		

US-CL-CURRENT: 528/25; 528/26, 528/28, 528/29, 556/414, 556/421, 556/437, 556/438,
556/442

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 57. Document ID: US 5070169 A

L5: Entry 57 of 81

File: USPT

Dec 3, 1991

US-PAT-NO: 5070169

DOCUMENT-IDENTIFIER: US 5070169 A

TITLE: Wettable, flexible, oxygen permeable contact lens containing block copolymer
polysiloxane-polyoxyalkylene backbone units and use thereof

DATE-ISSUED: December 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robertson; J. Richard	Alpharetta	GA		
Su; Kai C.	Alpharetta	GA		
Goldenberg; Merrill S.	Teaneck	NJ		
Mueller; Karl F.	New York	NY		

US-CL-CURRENT: 528/25; 528/26, 528/28, 528/29, 556/414, 556/421, 556/437, 556/438

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 58. Document ID: US 5070166 A

L5: Entry 58 of 81

File: USPT

Dec 3, 1991

US-PAT-NO: 5070166

DOCUMENT-IDENTIFIER: US 5070166 A

TITLE: Wettable, flexible, oxygen permeable, contact lens containing polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: December 3, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Su; Kai C.	Alpharetta	GA	30201	
Molock; Frank	Lawrenceville	GA	30245	

US-CL-CURRENT: 526/301; 351/160H, 523/106, 525/404, 525/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 59. Document ID: US 5039769 A

L5: Entry 59 of 81

File: USPT

Aug 13, 1991

US-PAT-NO: 5039769

DOCUMENT-IDENTIFIER: US 5039769 A

TITLE: Wettable, flexible, oxygen permeable, substantially non-swellable contact lens containing polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: August 13, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molock; Frank	Lawrenceville	GA		
Su; Kai C.	Alpharetta	GA		

US-CL-CURRENT: 526/301; 351/160H, 523/106, 525/404, 525/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 60. Document ID: US 5024909 A

L5: Entry 60 of 81

File: USPT

Jun 18, 1991

US-PAT-NO: 5024909

DOCUMENT-IDENTIFIER: US 5024909 A

TITLE: Dry film process for altering wavelength response of holograms

DATE-ISSUED: June 18, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		
Doraiswamy; Krishna C.	Wilmington	DE		
Armstrong; Mark L.	Wilmington	DE		

US-CL-CURRENT: 430/1; 359/28, 359/3, 430/2, 430/912

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 61. Document ID: US 4990582 A

L5: Entry 61 of 81

File: USPT

Feb 5, 1991

US-PAT-NO: 4990582

DOCUMENT-IDENTIFIER: US 4990582 A

TITLE: Fluorine containing soft contact lens hydrogels

DATE-ISSUED: February 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Salamone; Joseph C.	Marblehead	MA	01915	

US-CL-CURRENT: 526/245; 526/242, 526/251

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 62. Document ID: US 4965152 A

L5: Entry 62 of 81

File: USPT

Oct 23, 1990

US-PAT-NO: 4965152

DOCUMENT-IDENTIFIER: US 4965152 A

TITLE: Holographic notch filters

DATE-ISSUED: October 23, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keys; Dalen E.	Wilmington	DE		
Smothers; William K.	Hockessin	DE		
Trout; Torence J.	Yorklyn	DE		

US-CL-CURRENT: 430/1; 359/15, 430/2, 430/281.1, 430/912

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 63. Document ID: US 4963471 A

L5: Entry 63 of 81

File: USPT

Oct 16, 1990

US-PAT-NO: 4963471

DOCUMENT-IDENTIFIER: US 4963471 A

TITLE: Holographic photopolymer compositions and elements for refractive index imaging

DATE-ISSUED: October 16, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trout; Torence J.	Yorklyn	DE		
Chan; Dominic M.	Wilmington	DE		
Monroe; Bruce M.	Wilmington	DE		

US-CL-CURRENT: 430/282.1; 430/1, 430/281.1, 430/283.1, 430/285.1, 430/907, 430/915,
430/916, 430/945, 522/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 64. Document ID: US 4959283 A

L5: Entry 64 of 81

File: USPT

Sep 25, 1990

US-PAT-NO: 4959283

DOCUMENT-IDENTIFIER: US 4959283 A

TITLE: Dry film process for altering wavelength response of holograms

DATE-ISSUED: September 25, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smothers; William K.	Hockessin	DE		
Doraiswamy; Krishna C.	Wilmington	DE		
Armstrong; Mark L.	Wilmington	DE		
Trout; Torence J.	Yorklyn	DE		

US-CL-CURRENT: 430/1; 359/28, 359/3, 430/2, 430/912

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 65. Document ID: US 4948854 A

L5: Entry 65 of 81

File: USPT

Aug 14, 1990

US-PAT-NO: 4948854

DOCUMENT-IDENTIFIER: US 4948854 A

TITLE: Transparent optical article and process for preparing same

DATE-ISSUED: August 14, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Amaya; Naoyuki	Higashiarai, Yatabemachi, Tsukuba-gun, Ibaraki-ken				JP
Anan; Keizo	Higashiarai, Yatabemachi, Tsukuba-gun, Ibaraki-ken				JP
Murata; Yoshishige	Sakuramura Umezono, Niihari-gun Ibaraki-ken				JP
Mogami; Takao	Owa, Suwa-shi, Nagano-ken				JP
Sano; Yoshio	Owa, Suwa-shi, Nagano-ken				JP
Ikebe; Haruhiro	Higashiarai, Yatabemachi, Tsukuba-gun, Ibaraki-ken				JP
Seita; Rumiko	Sakaecho, Yuki-shi, Ibaraki-ken				JP

US-CL-CURRENT: 526/261; 359/642, 526/292.4, 526/314, 526/321, 526/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 66. Document ID: US 4931279 A

L5: Entry 66 of 81

File: USPT

Jun 5, 1990

US-PAT-NO: 4931279

DOCUMENT-IDENTIFIER: US 4931279 A

TITLE: Sustained release formulation containing an ion-exchange resin

DATE-ISSUED: June 5, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Bawa; Rajan	Fairport	NY			
Ruscio; Dominic V.	Rochester	NY			

US-CL-CURRENT: 424/427; 424/429, 424/487, 424/78.04, 523/106, 525/326.1, 525/326.3, 525/326.6, 525/329.7, 525/330.3, 525/332.2, 525/333.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMIC

☐ 67. Document ID: US 4870145 A

L5: Entry 67 of 81

File: USPT

Sep 26, 1989

US-PAT-NO: 4870145

DOCUMENT-IDENTIFIER: US 4870145 A

TITLE: Process for preparing polymeric beads

DATE-ISSUED: September 26, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chromecek; Richard C.	Litchfield	CT		

US-CL-CURRENT: 526/217; 526/264, 526/270, 526/310, 526/317.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMIC

☐ 68. Document ID: US 4857606 A

L5: Entry 68 of 81

File: USPT

Aug 15, 1989

US-PAT-NO: 4857606

DOCUMENT-IDENTIFIER: US 4857606 A

TITLE: Wettable, flexible, oxygen permeable, substantially non-swellable contact lens containing polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: August 15, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Su; Kai C.	Alpharetta	GA		
Molock; Frank F.	Lawrenceville	GA		

US-CL-CURRENT: 525/455; 523/106, 528/75

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMIC

☐ 69. Document ID: US 4791175 A

L5: Entry 69 of 81

File: USPT

Dec 13, 1988

US-PAT-NO: 4791175

DOCUMENT-IDENTIFIER: US 4791175 A

TITLE: Particulate hydroperoxidized poly-n-vinyl lactam, its preparation and use thereof

DATE-ISSUED: December 13, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Janssen; Robert A.	Alpharetta	GA		

US-CL-CURRENT: 525/287; 525/291, 525/293, 525/296, 525/301, 525/308, 525/309, 525/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 70. Document ID: US 4780488 A

L5: Entry 70 of 81

File: USPT

Oct 25, 1988

US-PAT-NO: 4780488

DOCUMENT-IDENTIFIER: US 4780488 A

TITLE: Wettable, flexible, oxygen permeable, substantially non-swellable contact lens containing polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: October 25, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Su; Kai C.	Alpharetta	GA		
Molock; Frank F.	Lawrenceville	GA		

US-CL-CURRENT: 523/106; 525/455, 528/75

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 71. Document ID: US 4740533 A

L5: Entry 71 of 81

File: USPT

Apr 26, 1988

US-PAT-NO: 4740533

DOCUMENT-IDENTIFIER: US 4740533 A

TITLE: Wettable, flexible, oxygen permeable, substantially non-swellable contact lens containing block copolymer polysiloxane-polyoxyalkylene backbone units, and use thereof

DATE-ISSUED: April 26, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Su; Kai C.	Alpharetta	GA		
Robertson; J. Richard	Alpharetta	GA		

US-CL-CURRENT: 523/106; 525/453, 525/474, 525/479, 528/25, 528/28, 528/29, 528/32, 528/33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 72. Document ID: US 4713244 A

L5: Entry 72 of 81

File: USPT

Dec 15, 1987

US-PAT-NO: 4713244

DOCUMENT-IDENTIFIER: US 4713244 A

TITLE: Sustained-release formulation containing an amino acid polymer with a lower alkyl (C.sub.1 -C.sub.4) polar solvent

DATE-ISSUED: December 15, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bawa; Rajan	Fairport	NY		
Deichert; William G.	Macedon	NY		

US-CL-CURRENT: 424/429; 351/160H, 351/160R, 351/177, 424/486, 514/912, 514/913, 514/954, 523/106, 523/107, 523/108

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 73. Document ID: US 4703097 A

L5: Entry 73 of 81

File: USPT

Oct 27, 1987

US-PAT-NO: 4703097

DOCUMENT-IDENTIFIER: US 4703097 A

TITLE: Optical contact objects

DATE-ISSUED: October 27, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wingler; Frank	Leverkusen			DE
Geyer; Otto-Christian	Wetzlar			DE

US-CL-CURRENT: 526/279; 523/107, 526/307.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 74. Document ID: US 4668506 A

L5: Entry 74 of 81

File: USPT

May 26, 1987

US-PAT-NO: 4668506

DOCUMENT-IDENTIFIER: US 4668506 A

TITLE: Sustained-release formulation containing and amino acid polymer

DATE-ISSUED: May 26, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bawa; Rajan	Fairport	NY		

US-CL-CURRENT: 424/429, 351/160H, 351/160R, 351/177, 424/427, 424/449, 424/486,
514/912, 514/913, 514/954, 523/106, 523/107, 523/108

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 75. Document ID: US 4663409 A

L5: Entry 75 of 81

File: USPT

May 5, 1987

US-PAT-NO: 4663409

DOCUMENT-IDENTIFIER: US 4663409 A

TITLE: Alpha, beta-unsaturated carbonyl modified amino acid monomer and polymers for biomedical uses

DATE-ISSUED: May 5, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Friends; Gary D.	Ontario	NY		
Chromcek; Richard C.	Litchfield	CT		
Yourd, III; Raymond A.	Rochester	NY		

US-CL-CURRENT: 526/242, 526/258, 526/262, 526/265, 526/279, 526/288, 526/301, 526/302,
526/304, 526/307, 526/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 76. Document ID: US 4650843 A

L5: Entry 76 of 81

File: USPT

Mar 17, 1987

US-PAT-NO: 4650843

DOCUMENT-IDENTIFIER: US 4650843 A

TITLE: Soft contact lens

DATE-ISSUED: March 17, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokoyama; Yuuichi	Kunitachi			JP
Masuhara; Eiichi	Tokyo			JP
Kadoma; Yoshinori	Chiba			JP
Tarumi; Niro	Akisima			JP
Tsuchiya; Makoto	Tokyo			JP

US-CL-CURRENT: 526/245; 351/160H, 351/160R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 77. Document ID: US 4645811 A

L5: Entry 77 of 81

File: USPT

Feb 24, 1987

US-PAT-NO: 4645811

DOCUMENT-IDENTIFIER: US 4645811 A

TITLE: Material used for optical devices

DATE-ISSUED: February 24, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Falcetta; Joseph J.	Arlington	TX		
Kunzler; Wilhelm F.	Fairport	NY		

US-CL-CURRENT: 526/279; 523/107

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 78. Document ID: US 4540761 A

L5: Entry 78 of 81

File: USPT

Sep 10, 1985

US-PAT-NO: 4540761

DOCUMENT-IDENTIFIER: US 4540761 A

TITLE: Oxygen-permeable hard contact lens

DATE-ISSUED: September 10, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kawamura; Kazunori	Akishima			JP
Yamashita; Shinichi	Ohme			JP
Yokoyama; Yuichi	Kunitachi			JP
Tsuchiya; Makoto	Tokyo			JP

US-CL-CURRENT: 526/245; 351/160H, 351/160R, 523/107, 526/279

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 79. Document ID: US 4508884 A

L5: Entry 79 of 81

File: USPT

Apr 2, 1985

US-PAT-NO: 4508884

DOCUMENT-IDENTIFIER: US 4508884 A

TITLE: Oxygen permeable hard contact lens

DATE-ISSUED: April 2, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wittmann; Joseph W.	Rochester	NY		
Evans; John M.	Greece	NY		

US-CL-CURRENT: 526/279; 351/160H, 351/160R, 522/99, 528/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 80. Document ID: US 4454295 A

L5: Entry 80 of 81

File: USPT

Jun 12, 1984

US-PAT-NO: 4454295

DOCUMENT-IDENTIFIER: US 4454295 A

TITLE: Cured cellulose ester, method of curing same, and use thereof

DATE-ISSUED: June 12, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wittmann; Joseph W.	Rochester	NY		
Evans; John M.	Rochester	NY		

US-CL-CURRENT: 527/311; 522/89, 522/99, 525/937, 527/313, 528/32, 528/33, 528/43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 81. Document ID: US 4395496 A

L5: Entry 81 of 81

File: USPT

Jul 26, 1983

US-PAT-NO: 4395496

DOCUMENT-IDENTIFIER: US 4395496 A

TITLE: Cured cellulose ester, method of curing same, and use thereof

DATE-ISSUED: July 26, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wittmann; Joseph W.	Rochester	NY		
Evans; John M.	Rochester	NY		

US-CL-CURRENT: 523/107; 351/160H, 351/160R, 522/172, 522/72, 522/89, 522/99, 525/937,
527/311, 527/313, 528/32, 528/33, 528/43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
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